

SS PRESSURE GAUGE 4" DIAL

Back Connection · Bourdon Tube Pressure Gauge · Stainless Steel 316 · EN 837-1

BRAND: AIRTECH

ORIGIN: INDIA

DIAL 4" (NS100)

BACK CONNECTION

5 TO 100 BAR



FIG. 1 | SS PRESSURE GAUGE 4" DIAL BACK CONNECTION

PRODUCT OVERVIEW

The Airtech SS Pressure Gauge 4 inch Dial with back connection is a C type Bourdon tube instrument built to EN 837-1, with a stainless steel case and stainless steel 316 wetted parts. Centre back entry and a three hole front flange allow the gauge to sit flush in a control panel or console, with the pipework concealed behind the panel face.

The stainless steel 316 Bourdon tube and socket give good resistance to seawater, process chemicals and cleaning agents, while a blow-out back protects the operator in the event of tube failure. The 100 mm dial gives clear reading at distance across a control panel, and the gauge is supplied dry as standard or glycerine filled for pulsating and high vibration service.

Instrument type	Bourdon tube pressure gauge
Dial size	4" (100 mm nominal)
Connection position	Back (centre back) entry, male threaded
Case material	Stainless steel
Wetted parts	Stainless steel 316
Pressure range	5 bar to 100 bar

TECHNICAL SPECIFICATION

Design standard	EN 837-1	Scale range	0 to 5 bar up to 0 to 100 bar
Sensing element	C type Bourdon tube	Steady load limit	Full scale value
Accuracy class	1.0 (EN 837-1)	Fluctuating load	0.9 x full scale value
Process connection	1/2" BSP or NPT, male	Short time overload	1.3 x full scale value
Mounting	Panel or surface mounted, 3 hole front flange	Ambient temperature	-20°C to +60°C
Case filling	Dry, or glycerine filled	Country of origin	India



PRODUCT DATA SHEET

SS PRESSURE GAUGE 4" DIAL

Rev. 01

BILL OF MATERIALS

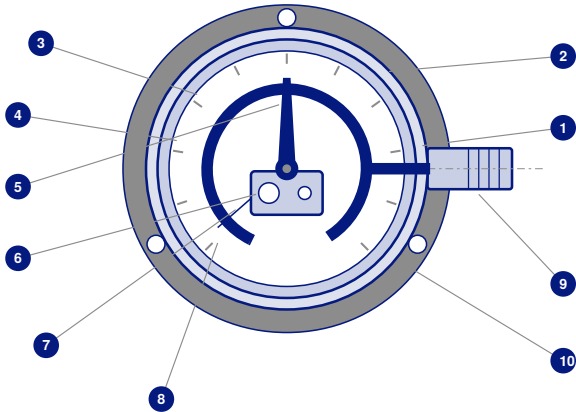


FIG. 2 | SECTIONAL ARRANGEMENT, BACK CONNECTION

#	COMPONENT	MATERIAL
1	Case	Stainless steel
2	Bezel ring	Stainless steel, crimped bayonet
3	Window	Instrument glass
4	Dial plate	Aluminium, white with black scale
5	Pointer	Aluminium, black, adjustable
6	Movement	Stainless steel geared movement
7	Link	Stainless steel
8	Bourdon tube	Stainless steel 316, C type
9	Socket / stem	Stainless steel 316
10	Panel mounting flange	Stainless steel, 3 hole

Dry construction is standard. Glycerine filled cases are available for pulsating or high vibration duty. Pointer is adjustable and the movement is calibrated against a reference gauge before despatch.

CASE AND MOUNTING DIMENSIONS

DIAL	NOMINAL SIZE NS	CASE DIA. D1 (MM)	FLANGE DIA. D2 (MM)	FIXING PCD D3 (MM)	FIXING HOLE D4 (MM)	CONNECTION
2.1/2"	63	61	86	75	3.6	1/4" BSP / NPT
4"	100	97	134	118	6	1/2" BSP / NPT
6"	150	147	186	168	6	1/2" BSP / NPT
6"	160	157	196	178	6	1/2" BSP / NPT

Highlighted row applies to this listing. Case and flange dimensions are the nominal values given in EN 837-1 for the stated nominal size and are for guidance only. Case depth, overall height and weight vary with the case filling and the connection selected. Certified manufacturer drawings are issued on request. Both NS150 and NS160 are offered commercially as a 6 inch dial, confirm which is required at enquiry stage.

ORDERING INFORMATION

FIELD	OPTIONS
Product description	SS Pressure Gauge 4" Dial Back Connection
Brand and origin	Airtech, India
Dial size	4" (100 mm nominal)
Connection	1/2" BSP or NPT, male, back entry
Range	0 to 5, 10, 16, 25, 40, 60 or 100 bar
Case filling	Dry standard. Glycerine filled on request
Order example	AIRTECH SS GAUGE / 4" DIAL / BACK / 0-16 BAR / 1/2" BSP / DRY

Stock held in Dubai for fast despatch across the UAE and GCC. Contact our sales desk for pricing, availability, project quantities and calibration certification requirements.



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SS PRESSURE GAUGE 4" DIAL

Rev. 01

PRESSURE RANGES

BAR	PSI	KG/CM ²	MPA
0 to 5	0 to 72.5	0 to 5.10	0 to 0.5
0 to 10	0 to 145	0 to 10.20	0 to 1.0
0 to 16	0 to 232	0 to 16.32	0 to 1.6
0 to 25	0 to 363	0 to 25.49	0 to 2.5
0 to 40	0 to 580	0 to 40.79	0 to 4.0
0 to 60	0 to 870	0 to 61.18	0 to 6.0
0 to 100	0 to 1450	0 to 101.97	0 to 10.0

Select a range so that the normal working pressure falls at about the middle of the scale. Ranges shown are the standard decimal series between the 5 bar and 100 bar limits published for this listing. Confirm the exact stocked ranges at enquiry stage.

TYPICAL APPLICATIONS

- Marine, offshore and shipboard systems
- Chemical and petrochemical processing
- Food, beverage and dairy plant
- Corrosive and aggressive fluid service
- Water treatment and desalination plant
- Boilers, tanks, pumps and compressors

COMPLIANCE AND QUALITY

- Manufactured in accordance with EN 837-1
- Accuracy class 1.0 for 100 mm nominal size
- Blow-out back fitted as a safety feature
- 100% pressure tested and calibrated before despatch
- Calibration certificate available on request
- Material test certificate available on request
- Adjustable pointer for zero setting

TEMPERATURE LIMITS

Ambient **-20°C to +60°C**

Medium, maximum **+60°C at the gauge**

Fit a siphon or cooling element for steam and hot media so that the temperature at the gauge stays within the limits above.

INSTALLATION AND OPERATION

- Mount where the dial is clearly visible and free from vibration
- Tighten on the socket hexagon flats only, never on the case or bezel
- Seal the male thread with a bonded washer or PTFE tape
- Fit a siphon or cooling coil on steam and hot media
- Fit a snubber or needle restrictor on pulsating service
- Do not exceed 1.3 x full scale, even for a short period

COMPANY

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